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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,875	03/07/2006	Osamu Mamba	1254-0308PUS1	9276
2292 7590 03/05/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				
EXAMINER TUN, NAY L				
ART UNIT 4153		PAPER NUMBER		
NOTIFICATION DATE 03/05/2009		DELIVERY MODE ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

### Office Action Summary

**Application No.**

10/570,875

**Applicant(s)**

MAMBA ET AL.

**Examiner**

NAY TUN

**Art Unit**

4153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 March 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-10 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 07 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-8508)  
Paper No(s)/Mail Date 03/07/2006, 08/13/2006  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Inventor's Patent Application  
6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Priority***

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claim 1-5 and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsushita (JP 2002057617 A).**

**Regarding claim 1,** Matsushita discloses a non-contact IC system (see FIG. 1, radio terminal units 3-1 – 3-n) comprising an antenna coil (see FIG. 9, antenna 19), an IC module (see FIG. 9, radio receiver section 13), and a battery (see FIG. 9, battery 11), wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil (see page 15, paragraph 68), said non-contact IC system further comprising: an electric power detection means for detecting the electric power supplied via said antenna coil (see page 15, paragraph 68. Radio receiver section 13 detects power from antenna); and a control means for controlling a drive power supply to said IC module based on the results of detection by said electric power detection

means (see page 15, paragraph 68 and page 16, paragraph 69. Control section 121 controls power supply to radio receiver section 13 based on the voltage detected by radio receiver section 13).

**Regarding claim 2,** Matsushita discloses a non-contact IC system comprising an antenna coil, an IC module, and a battery, wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil as set forth in claim 1 above.

Matsushita further discloses said non-contact IC system further comprising: a switch for supplying electric power to said IC module (see FIG. 9, change-over switch 43); and a control means for controlling a drive power supply to said IC module in accordance with a change in the state of said switch (see page 15, paragraph 68 and page 16, paragraph 69. Change of state in switch 43 changes the power supply to radio receiver section 13).

**Regarding claim 3,** Matsushita discloses a communication state detection means for detecting the communication state of said IC module (see page 15, paragraph 68 and page 16, paragraph 69. Control section 121 detects the communication signal from radio receiver section 13), wherein said control means controls the drive power supply to said IC module based on the results of detection by said communication state detection means (see page 16, paragraph 69. Control section 121 changes position of switch 43 when signal reception ends).

**Claim 4** is analyzed and rejected with respect to claim 2 above.

**Regarding claim 5,** Matsushita discloses an interface comprising said antenna coil and said IC module (see page 15, paragraph 68 and page 16, paragraph 69. Antenna 19 and radio receiver section 13 inputs received signal to control section 121); and a central arithmetic processing unit for performing various controls based on information from said interface (see page 16, paragraph 69. Control section 121 changes switch 43 when bit synchronization signal is received and when signal reception ends), wherein said central arithmetic processing unit controls the drive power supply to said control means (see page 16, paragraph 69. Control section 121 controls power supply to radio receiver section 13).

**Regarding claim 8,** Matsushita discloses a non-contact IC system (see FIG. 1, radio terminal units 3-1 – 3-n) comprising an antenna coil (see FIG. 16, antenna 19), an IC module for performing communication via said antenna coil (see FIG. 16, radio receiver section 13), and a battery for providing electric power to said IC module (see FIG. 16, battery 11), wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil (see page 19, paragraph 97), said non-contact IC system further comprising: an electric power detection means for detecting the electric power supplied via said antenna coil (see page 19, paragraph 97 and page 20, paragraph 105-106. Control section 122 detects rectified power from antenna 19); and a controls means for initiating the supply of electric power to said IC module from said battery in response to the detection of electric power by said

electric power detection means (see page 20, paragraph 105-106. Control section 122 turns switch 15 on when threshold voltage is detected at I3).

**Regarding claim 9**, Matsushita discloses wherein said control means stops supplying electric power to said IC module from said battery when electric power ceases to be detected after said detection of electric power (see FIG. 16, rectifier 41, control section 122, battery 11 and switch 15. It can be accommodated to turn off the power supply from the battery 11 when no power is detected from antenna at I3 by control section 122 even though control section 122 stops the power supply when the receiving signal ends so that it can keep receiving signal even if the signal is unstable).

**Regarding claim 10**, Matsushita discloses a mobile terminal (see FIG. 1, radio terminal unit 3-1- 3-n).

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushita (JP 2002057617 A) in view of Ingram (US 5790961 A).**

**Regarding claim 6**, Matsushita discloses said battery and said IC module as set forth in claim 1.

Matsushita does not disclose explicitly a regulator for supplying a predetermined drive power to said IC module.

However, Ingram teaches wherein said battery (see FIG. 1, battery 1) is provided with a regulator (see FIG. 1, 5 volt regulator 15) for supplying a predetermined drive power to said IC module (see col. 3, line 5-9).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to provide a regulator for supplying a predetermined drive power to said IC module, in the system of Matsushita, with the motivation for supplying a consistent voltage to the battery powered circuit of mobile devices (see col. 2, line 66-67 and col. 3, line 1-2).

**5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushita (JP 2002057617 A) in view of Arisawa (US 20030141989 A1).**

**Regarding claim 7**, Matsushita discloses wherein said IC module receives electric power and communication information as set forth in claim 1 above.

Matsushita does not explicitly disclose an IC card reader/writer.

However, Arisawa discloses wherein said IC module receives electric power and communication information from an IC card reader/writer, using electromagnetic waves as a medium (see FIG. 10, R/W device 200 and IC card 300. Also see page 1, paragraph 3. Non-contact IC card 300 receives data and power from R/W device 200).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to provide an IC card reader/writer, in the system of Matsushita, with the motivation of combining the mobile communication device with the IC card function such as data carrying and processing function (see FIG. 1 and see page 1, paragraph 6).

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - Iiyama (US 6489883 B1) discloses a non-contact data carrier with an electric-supply switching circuit between a battery and an electric supply circuit from a carrier signal.
  - Daikyo (JP 200009220 A) discloses an IC card with a secondary battery which delivers power to IC card, when power received via antenna is below predetermined voltage.

### ***Contact Information***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nay Tun whose telephone number is (571) 270-7939. The examiner can normally be reached on Mon-Thurs from 9:00-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Vu Le can be reached on (571) 272-7332. The fax phone number for



the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/NAY TUN/  
Examiner, Art Unit 4153

/Vu Le/  
Supervisory Patent Examiner, Art Unit 4153